

SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH GAS AND DIESEL SURROGATE RECOVERIES

Initial Calibration Date: 3/25/92
Initial Concentration Factor: 8.96E-4

Sample matrix: WATER
Units: ug/L
Surrogate: BFB

SAMPLE IDENTIFICATION	ANALYSIS DATE	SPIKE LEVEL	PEAK AREA	% RECOVERY
WER02-03M	3/25/92	12.6	21382	152

SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH GAS AND DIESEL SURROGATE RECOVERIES

Initial Calibration Date: 4/8/92
 Initial Concentration Factor: 9.25E-6

Sample matrix: WATER
 Units: ug/L
 Surrogate: BFB

SAMPLE IDENTIFICATION	ANALYSIS DATE	SPIKE LEVEL	PEAK AREA	% RECOVERY
WMW02B-01M	4/8/92	12.6	1013029	74
WER03A-01M	4/8/92	12.6	1269274	93
WMW03A-01M	4/8/92	12.6	1076343	79
WER02B-01M	4/8/92	12.6	1098174	81
WTB01-07M	4/8/92	12.6	972518	71
WFB02B-01M	4/8/92	12.6	853918	62

1164

SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH AS GAS AND DIESEL RESULTS

Sample Matrix: SOIL
Units: ppm

SAMPLE IDENTIFICATION	COLLECTION DATE	ANALYSIS DATE	PRELIM. REPORT DATE	RESULT GAS	RESULT DIESEL	D.L. GAS	D.L. DIESEL
BLANK	NA	2/26/92	2/26/92	10U	10U	10	10
SMW04-01	2/26/92	2/26/92	2/26/92	10U	10U	10	10
BLANK	NA	2/27/92	2/27/92	10U	10U	10	10
SMW04-02M	2/27/92	2/27/92	2/27/92	10U	10U	10	10
BLANK	NA	3/9/92	3/9/92	10U	10U	10	10
SMW05-01M	3/6/92	3/9/92	3/9/92	10U	10U	10	10
SMW05-03M	3/7/92	3/9/92	3/9/92	10U	10U	10	10
BLANK	NA	3/16/92	3/16/92	10U	10U	10	10
SMW02-01M	3/12/92	3/16/92	3/16/92	10U	10U	10	10
SMW02-02M	3/12/92	3/16/92	3/16/92	10U	10U	10	10
BLANK	NA	3/17/92	3/17/92	10U	10U	10	10
SMW03-01M	3/13/92	3/17/92	3/17/92	10U	10U	10	10

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SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH AS GAS AND DIESEL RESULTS

Sample Matrix: SOIL
Units: ppm

SAMPLE IDENTIFICATION	COLLECTION DATE	ANALYSIS DATE	PRELIM. REPORT DATE	RESULT GAS	RESULT DIESEL	D.L. GAS	D.L. DIESEL
BLANK	NA	3/25/92	3/25/92	10U	10U	10	10
SMW02-01M	3/25/92	3/25/92	3/25/92	10U	10U	10	10
BLANK	NA	3/26/92	3/26/92	10U	10U	10	10
SMW02-04M	3/26/92	3/26/92	3/26/92	10U	10U	10	10

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SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH AS GAS AND DIESEL RESULTS

Sample Matrix: WATER
Units: ug/L

SAMPLE IDENTIFICATION	COLLECTION DATE	ANALYSIS DATE	PRELIM. REPORT DATE	RESULT GAS	RESULT DIESEL	D.L. GAS	D.L. DIESEL
BLANK	NA	3/12/92	3/12/92	1U	2U	1	2
WMW04A-01M	3/10/92	3/12/92	3/12/92	1U	2U	1	2
WMW04B-01M	3/12/92	3/12/92	3/12/92	1U	2U	1	2
BLANK	NA	3/19/92	3/19/92	1U	2U	1	2
WMW03A-01	3/19/92	3/19/92	3/19/92	1U	2U	1	2
WMW03B-01	3/19/92	3/19/92	3/19/92	1U	2U	1	2
BLANK	NA	3/24/92	3/24/92	1U	2U	1	2
WER05A-01M	3/24/92	3/24/92	3/24/92	1U	2U	1	2
WMW05A-01M	3/24/92	3/24/92	3/24/92	1U	2U	1	2
WMW05B-01M	3/24/92	3/24/92	3/24/92	1U	2U	1	2
BLANK	NA	3/25/92	3/25/92	1U	2U	1	2
WER02-03M	3/25/92	3/25/92	3/25/92	1U	2U	1	2

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SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH AS GAS AND DIESEL RESULTS

Sample Matrix: WATER
Units: ug/L

SAMPLE IDENTIFICATION	COLLECTION DATE	ANALYSIS DATE	PRELIM. REPORT DATE	RESULT GAS	RESULT DIESEL	D.L. GAS	D.L. DIESEL
BLANK	NA	3/12/92	3/12/92	1U	2U	1	2
WMW04A-01M	3/10/92	3/12/92	3/12/92	1U	2U	1	2
WMW04B-01M	3/12/92	3/12/92	3/12/92	1U	2U	1	2
BLANK	NA	3/19/92	3/19/92	1U	2U	1	2
WMW03A-01	3/19/92	3/19/92	3/19/92	1U	2U	1	2
WMW03B-01	3/19/92	3/19/92	3/19/92	1U	2U	1	2
BLANK	NA	3/24/92	3/24/92	1U	2U	1	2
WER05A-01M	3/24/92	3/24/92	3/24/92	1U	2U	1	2
WMW05A-01M	3/24/92	3/24/92	3/24/92	1U	2U	1	2
WMW05B-01M	3/24/92	3/24/92	3/24/92	1U	2U	1	2
BLANK	NA	3/25/92	3/25/92	1U	2U	1	2
WER02-03M	3/25/92	3/25/92	3/25/92	1U	2U	1	2

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SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH AS GAS AND DIESEL RESULTS

Sample Matrix: WATETR
Units: ug/L

SAMPLE IDENTIFICATION	COLLECTION DATE	ANALYSIS DATE	PRELIM. REPORT DATE	RESULT GAS	RESULT DIESEL	D.L. GAS	D.L. DIESEL
BLANK	NA	3/26/92	3/26/92	1U	2U	1	2
WER03A-01M	3/26/92	3/26/92	3/26/92	1U	2U	1	2
BLANK	NA	4/8/92	4/13/92	1U	2U	1	2
WER03A-01M	4/6/92	4/8/92	4/13/92	1U	2U	1	2
WMW03A-01M	4/6/92	4/8/92	4/13/92	1U	2U	1	2
WER02B-01M	4/7/92	4/8/92	4/13/92	1U	2U	1	2
WTB01-07M	4/7/92	4/8/92	4/13/92	1U	2U	1	2
WMW02B-01M	4/7/92	4/8/92	4/13/92	1U	2U	1	2
WFB02B-01M	4/7/92	4/8/92	4/13/92	1U	2U	1	2
BLANK	NA	4/20/92	4/20/92	1U	2U	1	2
WMW02A-01M	4/9/92	4/20/92	4/20/92	1U	2U	1	2
WMW02A-02M	4/9/92	4/20/92	4/20/92	1U	2U	1	2

SUPERFUND ID NUMBER

9J5

REGION 9 FASP TPH AS GAS AND DIESEL RESULTS

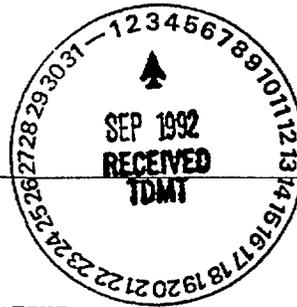
Sample Matrix: WATER
Units: ug/L

SAMPLE IDENTIFICATION	COLLECTION DATE	ANALYSIS DATE	PRELIM. REPORT DATE	RESULT GAS	RESULT DIESEL	D.L. GAS	D.L. DIESEL
BLANK	NA	4/22/92	4/22/92	1U	2U	1	2
WMW06A-01M	4/21/92	4/22/92	4/22/92	1U	2U	1	2
WMW06B-01M	4/21/92	4/22/92	4/22/92	1U	2U	1	2
WRW01-01M	4/21/92	4/22/92	4/22/92	1U	2U	1	2
WTB01-08M	4/21/92	4/22/92	4/22/92	1U	2U	1	2
WER06B-01M	4/21/92	4/22/92	4/22/92	1U	2U	1	2
WDW01-07M	4/21/92	4/22/92	4/22/92	1U	2U	1	2

271

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URS TDMT Only TDCN: 0874
Project #: 62172 Loc: 09.62 Type: 62

ICF TECHNOLOGY INCORPORATED

FASP NARRATIVE

- 1.0 ANALYSIS: Volatile Organics by FASP Modifications of EPA Methods 8010 and 8020 and Total Petroleum Hydrocarbons (TPH) by Automated Headspace Analysis
- 2.0 SITE: Newmark Well Field, San Bernadino, CA.
Superfund ID: 9J5
Remedial Project Manger: Kevin Meyer (H-8-1)

3.0 SAMPLES:

A total of 39 water and soil samples were analyzed during the period from 4/7/92 to 7/10/92. A list of the field samples, collection dates, analysis dates and requested analyses is presented in Table 1. Included in this table are the surrogate recoveries obtained in each sample.

4.0 QUALITY CONTROL:

FASP quality control (QC) results are included with the analyses performed each day. Analyses which did not meet FASP QC criteria were not reanalyzed which is consistent with Level II data quality objectives. Significant difficulties encountered during the course of these analyses are described below.

- 4.1 INITIAL CALIBRATION: Initial five point calibrations were performed on 4/8/92, 6/23/92, and 7/10/92 for the EPA Methods 8010 and 8020 analyses. The FASP QC guideline for percent relative standard deviation (%RSD) of $\leq 30\%$ was met for most analytes. Poor resolution was obtained for the gases and a calibration factor was calculated based on the summation of peaks attributed to the four gases: vinyl chloride, bromomethane, chloromethane and chloroethane. As a result, the %RSD for the gases exceeds the FASP QC criteria in some cases. Due to problems with the Hall detector, single point calibrations were used for the analyses performed on 4/7/92.
- 4.2 CONTINUING CALIBRATION: Continuing calibration standards analyzed on each day sample analyses were performed. The FASP QC criteria of 75-125 percent was met for most of the analytes, although significant deviations were observed with the surrogate, fluorobenzene, used for the EPA Method 8020 analyses, benzene, and the gases (as discussed in Section 4.1) in the continuing calibrations performed on 6/29/92 and 6/30/92.
- 4.3 BLANK ANALYSES: Blank analyses were performed each day sample analyses were performed. The following compounds were determined in blanks analyzed on the date specified: methylene chloride on 4/10/92 and 4/22/92; 1,1,1 trichloroethane on 7/10/92; and xylene on 4/8/92. No other target compounds were detected in any other blanks above the FASP reporting limit.

4.4 SURROGATE ANALYSES: Surrogate spiking compounds were added to each sample to estimate the adequacy of system performance. The FASP QC criteria for surrogate recovery is 70% to 125%. The Hall detector surrogate was 1-chloro-2-bromopropane and the surrogates used on the photoionization detector included fluorobenzene, 1,1,1-trifluorotoluene (1,1,1-TFT) and bromofluorobenzene (BFB). On the Hall detector, 3 out of 39 surrogate recoveries were outside of the FASP QC limits. On the PID, 3 out of 34 BFB, 7 out of 19 1,1,-TFT, and 13 out of 30 fluorobenzene recoveries were outside the FASP QC criteria. Surrogate recoveries were calculated based on the response in the daily calibration standard.

5.0 DISCUSSION OF RESULTS:

The analytical results are presented in this report by consecutive analysis date. FASP analyses do not deviate from analyses performed under EPA Methods 8010 and 8020 except as follows: no matrix spike and matrix spike duplicate analyses are performed, soil results are reported on a wet weight basis, and no second column confirmation analyses are performed. The FASP TPH method is adapted from EPA method 8015 and the guidelines presented in the State of California Department of Health Services Leaking Underground Fuel Tank (LUFT) Manual.

Very low to very high recoveries were observed for the surrogates fluorobenzene and 1,1,1-TFT. The cause of the high and variable surrogate recoveries may be residual water on the trap. An additional dry purge step was added with marginal success. The use of BFB, a late eluting compound which would not be affected by coelution with water vapor was adopted and the BFB recoveries were largely within FASP QC criteria.

No difficulties were encountered with the TPH analyses.

All data contained in this report should be considered as appropriate for screening level uses.

TABLE 1: INVENTORY OF FASP SAMPLES and SURROGATE RECOVERIES

CLIENT: URS Consultants, Inc.
 DATE: 4/7/92 through 7/10/92

STATION	COLLECTION DATE	ANALYSIS DATE	CLIENT SAMPLE ID	EPA 601/8010	EPA 602/8020	I-CL-2BRP % RECOVERY	FB % REC.	1,1,1-TFT % REC.	BFB % REC.	TPH-Headspace	TPH-Diesel	BFB % REC.
MW04	04/04/92	04/07/92	WDW01-06M	X	X	83	95	NA	NA			
ER03A	04/06/92	04/08/92	WER03A-01M	X	X	111	43	NA	NA	X		*
MW03A	04/06/92	04/08/92	WMW03A-01M	X	X	111	41	NA	NA	X	X	*
ER02B	04/07/92	04/08/92	WER02B-01M	X	X	116	7	NA	NA	X	X	*
TB01	04/07/92	04/08/92	WTB01-07M	X	X	102	661	NA	NA	X	X	*
MW02B	04/07/92	04/09/92	WMW02B-01M	X	X	106	77	11	98	X	X	*
FB02B	04/07/92	04/09/92	WFB02B-01M	X	X	107	70	9	106	X		*
MW02A	04/09/92	04/10/92	WMW02A-01M	X	X	106	7	NR	100	X	X	*
MW02A	04/09/92	04/10/92	WMW02A-02M	X	X	114	7	NR	100	X	X	*
RW01	04/20/92	04/23/92	WRW01-01M	X	X	82	43	NR	120			
TB01	04/21/92	04/22/92	WTB01-08M	X	X	89	660	NR	115	X		*
ER06	04/20/92	04/22/92	WER06B-01M	X	X	68	497	NR	118	X	X	*
MW06A	04/20/92	04/23/92	WMW06A-01M	X	X	80	57	NR	102	X	X	*
MW06B	04/20/92	04/23/92	WMW06B-01M	X	X	69	42	NR	137	X	X	*
DW01	04/21/92	04/22/92	WDW01-07M	X	X	98	637	NR	113	X		*
MW01J	06/24/92	06/29/92	WMW01J-01C	X	X	109	NR	103	115	X		90
MW01F	06/24/92	06/29/92	WMW01F-01C	X	X	105	NR	95	127	X		73
WM01E	06/25/92	06/29/92	WMW01E-01C	X	X	80	NR	65	91	X		83
MW01G	06/25/92	06/29/92	WMW01G-01C	X	X	67	NR	16	85	X		83
MW01H	06/25/92	06/29/92	WMW01H-01C	X	X	81	NR	NR	82	X		63
MW01H	06/25/92	06/30/92	WMW01H-02C	X	X	82	105	83	107	X		78
TB01	06/25/92	06/30/92	WTB01-01M	X	X	81	82	74	113	X		56
MW01I	06/25/92	06/29/92	WMW01I-01M	X	X	91	NR	27	86		X	83
MW01B	06/25/92	06/29/92	WMW01B-01M	X	X	81	NR	NR	91		X	80
MW01C	06/25/92	06/29/92	WMW01C-01M	X	X	84	NR	NR	86		X	82

TABLE 1: INVENTORY OF FASP SAMPLES and SURROGATE RECOVERIES

CLIENT: URS Consultants, Inc.
 DATE: 4/7/92 through 7/10/92

STATION	COLLECTION DATE	ANALYSIS DATE	CLIENT SAMPLE ID	EPA 601/8010	EPA 602/8020	1-CL-2BRP % RECOVERY	FB % REC.	1,1,1-TFT % REC.	BFB % REC.	TPH-Headspace	TPH-Diesel	BFB % REC.
MW01D	06/25/92	06/29/92	WMW01D-01M	X	X	96	88	73	91		X	85
MW01A	06/26/92	06/30/92	WMW01A-01M	X	X	100	100	72	76		X	85
MW01A	06/26/92	06/29/92	WFB01A-01M	X	X	89	98	71	76		X	75
TB01	06/26/92	06/30/92	WTB01-02M	X	X	95	NR	52	73		X	98
MW07	06/26/92	06/29/92	WDW07-01M	X	X	77	95	79	86			
MW07	06/28/92	06/30/92	WER07A-01M	X	X	97	107	75	104			
MW07	06/28/92	06/30/92	WMW07A-01M	X	X	98	104	86	85			
MW07	06/28/92	06/30/92	WMW07B-01M	X	X	88	105	77	88			
MW07	06/28/92	06/30/92	WMW07B-02M	X	X	105	105	76	73			
MW07	06/28/92	06/30/92	WTB07-01M	X	X	91	104	153	72			
MW08A	07/09/92	07/10/92	WMW08A-01M	X	X	108	104	NR	75			
MW08B	07/09/92	07/10/92	WMW08B-01M	X	X	101	80	NR	83			
MW08	07/09/92	07/10/92	WTB08-01M	X	X	111	91	NR	72			
MW08	07/09/92	07/10/92	WDW08-01M	X	X	103	62	NR	67			

* TPH results prior to 6/29/92 were reported in an earlier document.

NR - Not Recovered

NA - Not Analysed

URS Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.31				SITE NAME: NEWMARK REIFS				NO. OF CON- TAINERS	EPA 601 EPA 602					REMARKS				
SAMPLERS (SIGNATURE): <i>Jay Yin</i>																		
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION													
MMW02	4/4/92	1010		X	WDW 01 - 06M	4	X	X										
RELINQUISHED BY: (SIGNATURE) <i>Jay Yin</i>			DATE	TIME	RECEIVED BY (SIGNATURE) FED EX 308886994	RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)							
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)							
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS:										

REVIEWED BY: *Jay Yin* 4/4/92

CA 00517

URS Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.:		SITE NAME:		NO. OF CONTAINERS	REMARKS									
62172, 32, 40		NEWMARK RIF/FS												
SAMPLERS (SIGNATURE):				STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	EPA 601	EPA 602	TPH-G	TPH-B015	
<i>Jay Zin</i>														
<i>Pete Lynch</i>														
	WERO3A	4/6/92	1430		X				WERO3A-01M	6	X	X	X	
	MW03A	4/6/92	1630		X				WMW03A-01M	7	X	X	X	
	WERO2B	4/7/92	1120		X				WERO2B-01M	7	X	X	X	LE 4/7/92
	TP01	4/7/92	1245		X				WTB01-07M	2	X	X	X	ANALYZE ALL FROM TWO VIALS, ELSE JUST 601
	MW02B	4/7/92	1530		X				WMW02B-01M	7	X	X	X	
	WFB02B	4/7/92	1525		X				WFB02B-01M	6	X	X	X	
RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)				RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)
<i>Jay Zin</i>				4/7/92	1750	FED EX 8088869983								
RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY (SIGNATURE)				RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)				DATE	TIME	REMARKS:		

REVIEWED BY: *Jay Zin* 4/7/92

CA 00507

URS Consultants, Inc. CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172, 32, 40			SITE NAME: NEWMARK RIFTS GW CONTAM.			NO. OF CON- TAINERS	EPA 601	EPA 602	TPH - G	TPH - BOIS			REMARKS
SAMPLERS (SIGNATURE): <i>Pete Lipell Chris Longman</i>													
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
RW01	4/20/92	1340		X	WRW01-01M	4	X	X					
TB01	4/21/92	1200		X	WTB01-03M	6	X	X	X				
ER06	4/20/92	1315		X	WER06B-01M	7	X	X	X	X			
MMW06A	4/21/92	1025		X	MMW06A-01M	7	X	X	X	X			
MMW06B	4/20/92	1615		X	MMW06B-01M	7	X	X	X	X			
WDW01	4/21/92	1050		X	WDW01-07M	4	X	X					
RELINQUISHED BY: (SIGNATURE) <i>Pete Lipell</i>			DATE	TIME	RECEIVED BY (SIGNATURE) FED EX 8088869913	RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS:					

REVIEWED BY: LARRY ZIUKY VIA FAX 4/21/92

CA 00508

URS Consultants, Inc. AIRBILL 808887046Z CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.31.40				SITE NAME: NEWMARK REIFS				NO. OF CONTAINERS	EPA 601	EPA 602	TPH-G					REMARKS
SAMPLERS (SIGNATURE): <i>Jay Sun</i>																
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION											
MW01J	6/24/92	1455		X	WMW01J-OIC	✓✓	6	X	X	X						
MW01F	6/25/92	1955		X	WMW01F-OIC	✓	6	X	X	X						
MW01E	6/25/92	0908		X	WMW01E-OIC	✓	6	X	X	X						
MW01G	6/25/92	1140		X	WMW01G-OIC	✓✓	6	X	X	X						
MW01H	6/25/92	1208		X	WMW01H-OIC	✓✓	6	X	X	X						
MW01H	6/25/92	1208		X	WMW01H-OZC	✓✓	6	X	X	X						
TB01	6/25/92	1340		X	WTB01-OIM	✓✓	6	X	X	X						
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			
<i>Jay Sun</i>			6/24/92	1505	<i>Bryan Ranzagh-Lanzardi</i>			<i>Bryan Ranzagh-Lanzardi</i>			6/25/92	1358	<i>Jay Sun</i>			
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			
<i>Jay Sun</i>			6/25/92	1728	808887046Z											
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)			DATE	TIME	REMARKS:						
<i>Jay Sun</i>					<i>[Signature]</i>			6/26/92	10:10							

6/25/92

WMW01J-OIC ONLY

RENEWED BY: MILDA ULIM VIA FAX 6/25/92

CA 00510

URS Consultants, Inc.

CHAIN OF CUSTODY RECORD

10

PROJECT NO.:		SITE NAME:		NO. OF CONTAINERS	EPA 601	EPA 602	TPH-EXT				REMARKS
62172, 31.40		NEWARK RIFTS									
SAMPLERS (SIGNATURE):											
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION						
✓✓ MW01I	06/25/92	1430		X	WMW01I-01M ✓	✓	6	X	X	X	
✓✓ MW01B	06/25/92	1800		X	WMW01B-01M ✓	✓	6	X	X	X	602 fraction not rec'd
✓✓ MW01C	06/25/92	1635		X	WMW01C-01M ✓	✓	6	X	X	X	
✓✓ MW01D	06/25/92	1859		X	WMW01D-01M ✓	✓	6	X	X	X	
✓ MW01A	06/26/92	1638		X	WMW01A-01M ✓	✓	6	X	X	X	
✓ MW01A	06/26/92	1638		X	WMW01A-01M ✓	✓	6	X	X	X	
✓ TB01	06/26/92	1720		X	WTB01-02M ✓	✓	4	X	X		
WMW07	06/26/92	0945		X	WMW07-01M		4	X	X		CE 6/26/92
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)
[Signature]			06/26/92	1758	[Signature]	[Signature]			06/27/92	12:30	[Signature]
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)
[Signature]						[Signature]					
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	REMARKS:			
[Signature]											

REVIEWED BY: NILDA LUM VIA FAX 6/26/92

CA 00511

PROJECT NO.: 62172.3Z.60				SITE NAME: NEWMARK RIFLS				NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">EPA 601</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">EPA 602</div> </div>				REMARKS			
SAMPLERS (SIGNATURE): <i>Chris Lorange</i>																
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION											
WDW07	06/26	0845		X	WDW07-01M ✓		4	X	X							
RELINQUISHED BY: (SIGNATURE) <i>Chris Lorange</i>			DATE TIME 06/26/02 0900		RECEIVED BY (SIGNATURE) <i>Ley Jay</i>			RELINQUISHED BY (SIGNATURE)			DATE TIME 06/26/02 10530		RECEIVED BY (SIGNATURE) <i>James Chan</i>			
RELINQUISHED BY: (SIGNATURE) <i>Ley Jay</i>			DATE TIME 6/26/02 1758		RECEIVED BY (SIGNATURE) <i>8680669924</i>			RELINQUISHED BY (SIGNATURE)			DATE TIME		RECEIVED BY (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)			DATE TIME		RECEIVED FOR LABORATORY BY (SIGNATURE)			DATE TIME		REMARKS:						

CA 00525

URS Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.60			SITE NAME: NEWMARK			NO. OF CONTAINERS	601	602						REMARKS
SAMPLERS (SIGNATURE): <i>Chris Longman / Peter Lipell</i>														
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION									
mwo7	6/28 th	0930		X	WER07A-01m	2	X	X						
mwo7	6/28 th	1400		X	Wmwo7A-01m	2	X	X						
mwo7	6/28 th	1250		X	Wmwo7B-01m	2	X	X						
mwo7	6/28 th	1250		X	Wmwo7B-02m	2	X	X						
mwo7	6/28 th	0915		X	WTBO7-01m	2	X	X						
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			
<i>Peter Lipell</i>			6/28/92	1320	<i>F&DX 8088870451</i>									
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	REMARKS:						
					<i>Victoria Cayla</i>	6/30/92	10 AM							

REVIEWED BY: NILDALUM VIA FAX 6/29/92

CA 00528

URS Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 62172.32.60				SITE NAME: NEWMARK RI/FS		NO. OF CONTAINERS	EPA601	EPA602							REMARKS
SAMPLERS (SIGNATURE): <i>Peter Lingell</i> <i>Chris Longman</i>															
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION										
MW08A	7/9/92	1155		X	WMW08A-O1M	4	X	X							
MW08B	7/9/92	1645		X	WMW08B-O1M	4	X	X							
MW08	7/9/92	1445		X	WTB08-O1M	4	X	X							
MW08	7/9/92	1500		X	WDW08-O1M	4	X	X							
RELINQUISHED BY: (SIGNATURE) <i>Peter Lingell</i>			DATE	TIME	RECEIVED BY (SIGNATURE) FEDX 8088869935			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)			RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)			DATE	TIME	REMARKS: SHIPMENT FOR NEWMARK RI/FS COMPLETE					
REVIEWED BY: NILDA LUM VIA FAX 7/9/92															

FASP CONTINUING CALIBRATION SUMMARY

CONTINUING CALIBRATION DATE: 4/7/92

20

ANALYTE	AVERAGE CF	CCAL CF	%D
BENZENE	N/A	1.3E-03	N/A
TOLUENE	N/A	1.4E-03	N/A
CHLOROBENZENE	N/A	1.4E-03	N/A
ETHYLBENZENE	N/A	1.4E-03	N/A
P-XYLENE/M-XYLENE	N/A	5.1E-04	N/A
STYRENE/O-XYLENE	N/A	6.2E-04	N/A
FLUOROBENZENE	N/A	2.4E-03	N/A
CHLOROMETHANE/VINYL CHLORIDE BROMOMETHANE/CHLOROETHANE	N/A	2.14E-05	N/A
1,1-DCE	N/A	1.3E-05	N/A
METHYLENE CHLORIDE	N/A	2.9E-05	N/A
trans-1,2-DCE	N/A	9.8E-06	N/A
1,1-DCA	N/A	1.5E-05	N/A
cis-1,2-DCE	N/A	2.2E-05	N/A
CHLOROFORM	N/A	2.1E-05	N/A
1,1,1-TCA	N/A	7.9E-06	N/A
1,1-DCP/CCL4	N/A	7.4E-06	N/A
1,2-DCA	N/A	1.1E-05	N/A
TCE	N/A	9.7E-06	N/A
1,2-DCP	N/A	9.5E-06	N/A
BDCM	N/A	1.0E-05	N/A
cis-1,3-DCP	N/A	8.1E-06	N/A
1,1,2-TCA	N/A	9.4E-06	N/A
PCE	N/A	7.1E-06	N/A
DBCM	N/A	1.4E-05	N/A
CHLOROBENZENE	N/A	2.2E-05	N/A
BROMOFORM	N/A	3.9E-05	N/A
1,1,2,2-TCA	N/A	1.1E-05	N/A
1-CHLORO-2-BROMO PROPANE	N/A	1.7E-05	N/A

Note: Calibration was based on the continuing calibration without reference to a calibration curve.

N/A - Not Applicable

SUPERFUND ID NUMBER

9J5

CLIENT IDENTIFICATION

BLANK 4/7/92

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: BLANK 4/7/92
 Sample Collection Date: N/A
 Sample Analysis Date: 4/7/92
 Preliminary Report Date: N/A

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered

9J5

BLANK 4/7/92

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	82
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	96
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

9J5

WDW01-06M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WDW01-06M
 Sample Collection Date: 4/4/92
 Sample Analysis Date: 4/7/92
 Preliminary Report Date: 4/13/92

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered

17

9J5

WDW01-06M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	83
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	95
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

FASP INITIAL CALIBRATION WORKSHEET - APRIL 8, 1992

CONCENTRATION	2	5	10	20	40	AVERAGE	SD	%RSD
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PID

BENZENE	2.1E-04	3.0E-04	3.5E-04	1.8E-04	5.7E-05	2.2E-04	1E-04	46
TOLUENE	1.4E-04	2.1E-04	2.4E-04	1.2E-04	6.0E-05	1.5E-04	6E-05	40
CHLOROBENZENE	2.5E-05	2.6E-05	2.2E-05	1.2E-04	6.1E-05	5.1E-05	4E-05	75
ETHYLBENZENE	2.7E-05	2.8E-05	2.3E-05	2.0E-05	6.5E-05	3.3E-05	2E-05	50
P-XYLENE/M-XYLENE	9.9E-06	1.0E-05	8.2E-06	7.3E-06	2.7E-05	1.3E-05	7E-06	59
STYRENE/O-XYLENE	1.1E-05	1.1E-05	9.9E-06	8.8E-06	3.0E-05	1.4E-05	8E-06	57

FLUOROBENZENE	2.1E-04	3.0E-04	3.5E-04	2.9E-04	3.7E-04	3.0E-04	6E-05	18
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HALL

CHLOROMETHANE/VINYL CHLORIDE								
CHLOROETHANE/BROMOMETHANE	1.7E-05	1.0E-05	1.1E-05	1.2E-05	1.2E-05	1.3E-05	2E-06	20
1,1-DCE	7.8E-06	9.5E-06	9.8E-06	8.6E-06	8.9E-06	8.9E-06	7E-07	8
METHYLENE CHLORIDE	7.0E-06	8.7E-06	9.3E-06	9.0E-06	8.9E-06	8.6E-06	8E-07	9
trans-1,2-DCE	6.7E-06	7.2E-06	7.1E-06	7.6E-06	6.6E-06	7.0E-06	4E-07	5
1,1-DCA	6.9E-06	7.4E-06	6.8E-06	7.1E-06	6.6E-06	7.0E-06	3E-07	4
cis-1,2-DCE	9.0E-06	1.1E-05	1.1E-05	1.0E-05	1.0E-05	1.0E-05	7E-07	7
CHLOROFORM	1.0E-05	1.4E-05	1.7E-05	1.1E-05	2.2E-05	1.5E-05	4E-06	28
1,1-TCA	9.5E-06	1.1E-05	1.2E-05	1.2E-05	1.1E-05	1.1E-05	9E-07	8
1-DCP/CCL4	1.3E-05	1.5E-05	1.5E-05	1.6E-05	1.4E-05	1.4E-05	8E-07	6
1,2-DCA	6.5E-06	6.9E-06	6.3E-06	6.5E-06	6.0E-06	6.4E-06	3E-07	5
TCE	6.8E-06	7.2E-06	7.4E-06	7.8E-06	6.9E-06	7.2E-06	4E-07	5
1,2-DCP	7.6E-06	7.2E-06	7.2E-06	7.8E-06	6.7E-06	7.3E-06	4E-07	5
BDCM	1.1E-05	1.0E-05	8.9E-06	9.6E-06	7.8E-06	9.6E-06	1E-06	12
cis-1,3-DCP	2.6E-06	6.3E-06	5.6E-06	6.2E-06	4.8E-06	5.1E-06	1E-06	27
1,1,2-TCA	6.3E-06	7.0E-06	6.6E-06	7.4E-06	6.4E-06	6.7E-06	4E-07	6
PCE	5.2E-06	5.4E-06	5.0E-06	5.5E-06	4.8E-06	5.2E-06	3E-07	5
DBCM	1.7E-05	1.5E-05	1.2E-05	5.5E-06	8.8E-06	1.2E-05	4E-06	36
CHLOROBENZENE	1.8E-05	1.9E-05	1.6E-05	1.7E-05	1.5E-05	1.7E-05	2E-06	9
BROMOFORM	7.7E-05	4.1E-05	2.5E-05	2.6E-05	1.6E-05	2.7E-05	9E-06	33
1,1,2,2-TCA	8.3E-06	8.7E-06	7.2E-06	8.4E-06	6.3E-06	7.8E-06	9E-07	11
1-CHLORO-2 BROMOPROPANE	1.5E-05	1.5E-05	1.4E-05	1.5E-05	1.3E-05	1.4E-05	9E-07	6

9J5

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REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: BLANK

Sample Collection Date:

N/A

Sample Analysis Date:

4/8/92

Preliminary Report Date:

N/A

Sample Matrix: WATER

Units: ug/L

Dilution Factor: 1

Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.6	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

20

NA - Not Analysed
 NR - Not Recovered

9J5

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REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	108
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.9	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	41
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

9J5

WERO3A-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WERO3A-01M
 Sample Collection Date: 4/6/92
 Sample Analysis Date: 4/8/92
 Preliminary Report Date: 4/13/92

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.6	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered

9J5

WERO3A-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	111
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.8	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	43
a,a,a-Trifluorotoluene	NR
Bromofluorobenzene	NR

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

9J5

WMW03A-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WMW03A-01M
 Sample Collection Date: 4/6/92
 Sample Analysis Date: 4/8/92
 Preliminary Report Date: 4/13/92

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.4 J	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.68	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered

9J5

WMW03A-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	111
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.8	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	41
a,a,a-Trifluorotoluene	NR
Bromofluorobenzene	NR

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

9J5

WERO2B-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WERO2B-01M
 Sample Collection Date: 4/7/92
 Sample Analysis Date: 4/8/92
 Preliminary Report Date: 4/13/92

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.6	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered

9J5

WER02B-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	116
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	1.0	0.5
Toluene	1.5	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	7.0
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

9J5

WTB01-07M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WTB01-07M	Sample Matrix: WATER
Sample Collection Date: 4/7/92	Units: ug/L
Sample Analysis Date: 4/8/92	Dilution Factor: 1
Preliminary Report Date: 4/13/92	Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

9J5

WTB01-07M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	102
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.6	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	661
a,a,a-Trifluorotoluene	NA
Bromofluorobenzene	NA

FASP CONTINUING CALIBRATION SUMMARY

INITIAL CALIBRATION DATE: 4/8/92

CONTINUING CALIBRATION DATE: 4/9/92

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ANALYTE	AVERAGE CF	CCAL CF	%D
BENZENE	2.2E-04	2.2E-04	-0
TOLUENE	1.5E-04	1.9E-04	-20
CHLOROBENZENE	5.1E-05	2.7E-05	48
ETHYLBENZENE	3.3E-05	2.6E-05	21
P-XYLENE/M-XYLENE	1.3E-05	9.5E-06	24
STYRENE/O-XYLENE	1.4E-05	1.1E-05	19
FLUOROBENZENE	3.0E-04	3.8E-04	-24

CHLOROMETHANE/VINYL CHLORIDE			
BROMOMETHANE/CHLOROETHANE	1.3E-05	1.02E-05	20
1,1-DCE	8.9E-06	8.67E-06	3
METHYLENE CHLORIDE	8.6E-06	9.22E-06	-7
trans-1,2-DCE	7.0E-06	7.26E-06	-4
1,1-DCA	7.0E-06	7.00E-06	-0
cis-1,2-DCE	1.0E-05	9.63E-06	6
CHLOROFORM	1.5E-05	1.09E-05	25
1,1,1-TCA	1.1E-05	1.09E-05	2
1,1-DCP/CCL4	1.4E-05	1.29E-05	11
1,2-DCA	6.4E-06	6.30E-06	2
TCE	7.2E-06	7.64E-06	-6
1,2-DCP	7.3E-06	7.52E-06	-3
BDCM	9.6E-06	8.71E-06	9
cis-1,3-DCP	5.1E-06	6.13E-06	-20
1,1,2-TCA	6.7E-06	7.23E-06	-7
PCE	5.2E-06	5.40E-06	-4
DBCM	1.2E-05	9.60E-06	18
CHLOROBENZENE	1.7E-05	1.67E-05	2
BROMOFORM	2.7E-05	2.41E-05	11
1,1,2,2-TCA	7.8E-06	7.26E-06	7
1-CHLORO-2-BROMOPROPANE	1.4E-05	1.43E-05	1

9J5

BLANK 4/9/92

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification:	BLANK 4/9/92	Sample Matrix:	WATER
Sample Collection Date:	N/A	Units:	ug/L
Sample Analysis Date:	4/9/92	Dilution Factor:	1
Preliminary Report Date:	N/A	Sample Volume:	5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

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NA - Not Analysed
 NR - Not Recovered

9J5

BLANK 4/9/92

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	113
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	85
a,a,a-Trifluorotoluene	14
Bromofluorobenzene	100

SUPERFUND ID NUMBER

9J5

CLIENT IDENTIFICATION

WFB02B-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WFB02B-01M
 Sample Collection Date: 4/7/92
 Sample Analysis Date: 4/9/92
 Preliminary Report Date: 4/13/92

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

33

NA - Not Analysed
 NR - Not Recovered

SUPERFUND ID NUMBER

CLIENT IDENTIFICATION

9J5

WFB02B-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	107
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	70
a,a,a-Trifluorotoluene	9.0
Bromofluorobenzene	98

NA - Not Analysed
 NR - Not Recovered
 N/A - Not Applicable

SUPERFUND ID NUMBER

9J5

CLIENT IDENTIFICATION

WMW02B-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: WMW02B-01M
 Sample Collection Date: 4/7/92
 Sample Analysis Date: 4/9/92
 Preliminary Report Date: 4/13/92

Sample Matrix: WATER
 Units: ug/L
 Dilution Factor: 1
 Sample Volume: 5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.5 U	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.68	0.5
cis-1,2-Dichloroethene	2.0	0.5
Chloroform	0.81	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	3.1	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	15	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered

SUPERFUND ID NUMBER

CLIENT IDENTIFICATION

9J5

WMW02B-01M

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 2 of 2

METHOD 8010 COMPOUND	RESULT	FMDL
Dibromochloromethane	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Bromoform	5 U	5
1,1,2,2,-Tetrachloroethane	0.5 U	0.5

Percent Recovery

1-Chloro-2-bromopropane	106
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METHOD 8020 COMPOUND	RESULT	FMDL
Benzene	0.5 U	0.5
Toluene	0.5 U	0.5
Chlorobenzene	0.5 U	0.5
Ethylbenzene	0.5 U	0.5
p-/m-Xylene	0.5 U	0.5
o-Xylene/Styrene	0.5 U	0.5

Percent Recovery

Fluorobenzene	77
a,a,a-Trifluorotoluene	11
Bromofluorobenzene	106

FASP CONTINUING CALIBRATION SUMMARY

INITIAL CALIBRATION DATE: 4/8/92

CONTINUING CALIBRATION DATE: 4/10/92

20

ANALYTE	AVERAGE CF	CCAL CF	%D
BENZENE	2.2E-04	4.9E-05	77
TOLUENE	1.5E-04	2.5E-05	84
CHLOROBENZENE	5.1E-05	2.8E-05	45
ETHYLBENZENE	3.3E-05	2.7E-05	16
P-XYLENE/M-XYLENE	1.3E-05	1.0E-05	18
STYRENE/O-XYLENE	1.4E-05	1.2E-05	15
FLUOROBENZENE	3.0E-04	4.8E-05	84

CHLOROMETHANE/VINYL CHLORIDE			
BROMOMETHANE/CHLOROETHANE	1.3E-05	1.04E-05	18
1,1-DCE	8.9E-06	8.2E-06	8
METHYLENE CHLORIDE	8.6E-06	8.9E-06	-3
trans-1,2-DCE	7.0E-06	7.1E-06	-1
1,1-DCA	7.0E-06	6.9E-06	1
cis-1,2-DCE	1.0E-05	9.3E-06	9
CHLOROFORM	1.5E-05	1.1E-05	25
1,1,1-TCA	1.1E-05	1.0E-05	11
1,1-DCP/CCL4	1.4E-05	1.4E-05	2
1,2-DCA	6.4E-06	6.5E-06	-1
TCE	7.2E-06	7.7E-06	-6
1,2-DCP	7.3E-06	7.6E-06	-3
BDCM	9.6E-06	9.3E-06	3
cis-1,3-DCP	5.1E-06	6.0E-06	-18
1,1,2-TCA	6.7E-06	7.3E-06	-9
PCE	5.2E-06	5.5E-06	-6
DBCM	1.2E-05	1.0E-05	13
CHLOROBENZENE	1.7E-05	1.7E-05	-3
BROMOFORM	2.7E-05	2.2E-05	19
1,1,2,2-TCA	7.8E-06	7.5E-06	3
1-CHLORO-2-BROMOPROPANE	1.4E-05	1.5E-05	-2

SUPERFUND ID NUMBER

9J5

CLIENT IDENTIFICATION

BLANK 4/10/92

REGION 9 FASP VOLATILE ORGANICS RESULTS-Page 1 of 2

FASP Sample Identification: BLANK

Sample Collection Date:

N/A

Sample Analysis Date:

4/10/92

Preliminary Report Date:

N/A

Sample Matrix:

WATER

Units:

ug/L

Dilution Factor:

1

Sample Volume:

5 ml

METHOD 8010 COMPOUND	RESULT	FMDL
Chloromethane	5 U	5
Vinyl Chloride/Bromomethane	5 U	5
Chloroethane	5 U	5
1,1-Dichloroethene	0.5 U	0.5
Methylene Chloride	0.61	0.5
trans-1,2-Dichloroethene	0.5 U	0.5
1,1-Dichloroethane	0.5 U	0.5
cis-1,2-Dichloroethene	0.5 U	0.5
Chloroform	0.5 U	0.5
1,1,1-Trichloroethane	0.5 U	0.5
1,1-Dichloropropene/ Carbon tetrachloride	0.5 U	0.5
1,2-Dichloroethane	0.5 U	0.5
Trichloroethene	0.5 U	0.5
1,2-Dichloropropane	0.5 U	0.5
Bromodichloromethane	0.5 U	0.5
cis-1,3-Dichloropropene	0.5 U	0.5
1,1,2-Trichloroethane	0.5 U	0.5
Tetrachloroethene	0.5 U	0.5

821FRM12

NA - Not Analysed
 NR - Not Recovered